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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/675,580	09/30/2003	Hassan Serhan	3518.1010-000 (DEP5077)	9958
	7590 10/09/200 CLENNEN & FISH LL	EXAMINER		
	DE CENTER WEST BOULEVARD	SWIGER III, JAMES L		
BOSTON, MA			ART UNIT	PAPER NUMBER
			3733 .	
			NOTIFICATION DATE	DELIVERY MODE
			10/09/2007	ELECTRONIC

# Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Notice of the Office communication was sent electronically on above-indicated "Notification Date" to the following e-mail address(es):

docket@nutter.com

		Application No.	Applicant(s)		
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Office Action Summary		10/675,580	SERHAN ET AL.		
	Office Action Summary	Examiner	Art Unit		
	The MAIL INC DATE of this communication and	James L. Swiger	3733		
Period fo	The MAILING DATE of this communication app or Reply	lears on the cover sheet with the c	orrespondence address		
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).					
Status			•		
1)⊠	Responsive to communication(s) filed on 03 Ju	<u>ıly 2007</u> .			
,	This action is <b>FINAL</b> . 2b)⊠ This action is non-final.				
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is				
•	closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 45	3 O.G. 213.		
Disposit	ion of Claims	·			
5)□ 6)⊠ 7)□	Claim(s) 1-6,11-15,24 and 37-40 is/are pending 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed.  Claim(s) 1-6,11-15,24 and 37-40 is/are rejected Claim(s) is/are objected to.  Claim(s) are subject to restriction and/or	vn from consideration.			
Application Papers					
10)⊠	The specification is objected to by the Examine The drawing(s) filed on <a href="2/26/2004">2/26/2004</a> is/are: a) <a href="2">a</a> Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	accepted or b) objected to by t drawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).		
Priority (	under 35 U.S.C. § 119	·			
<ul> <li>12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).</li> <li>a) All b) Some * c) None of:  1. Certified copies of the priority documents have been received.</li> <li>2. Certified copies of the priority documents have been received in Application No</li> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>					
2) Notice 3) Infor	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	ite		

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-6, 15, and 37 are rejected under 35 U.S.C. 102(b) as being anticipated by Zdeblick et al. (US 6,375,655). Zdeblick et al. disclose a fusion device for use in the spine comprising a body (see Fig. 10) having a proximal portion (end @ 54), and a distal portion (opposite proximal end) that defines conduit, defined as an artificial channel or passage (see Fig. 9) that is substantially parallel to the major axis. Zdeblick et al. also disclose a supporting means (see Fig. 10 and also 18) capable of supporting the vertebrae in a distracted position while the vertebrae fuse (see Fig. 13 c), and wherein the open inside of the supporting means is considered a conduit in fluid communication with the conduit of the body or at least the portion as disclosed by Zdeblick et al. (US Patent 6,375,655).

The supporting means also has a height distinct from the width along a cross-section of the body supporting means (see profile in Fig. 2). Also the body or supporting means is capable of distracting vertebrae in that when the body (50) is connected to the supporting means (Fig. 2), it is capable of being turned (Fig. 6) into a position that could expand the vertebrae and distract them (Col. 4, lines 34-45). Further the supporting

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means may be a cage (Fig. 2) considering its open, hollow surround. The supporting means also maintains a substantial natural angle (see Fig. 3, lines A merging at the narrow end of the supporting means).

### Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

Claims 11-13, 24 and 39-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Zdeblick et al. '655 in view of Mathews (US Pub 2003/0028251). Zdeblick et al. disclose the claimed invention except for a supporting means that is a balloon that has materials used in the supporting implant or where the balloon may facilitate bone growth, or a flowable material. Mathews discloses a spinal device that is capable of being a support device as a balloon (see 34, and see pars 0043 to 0045) that is capable of providing support and that may be made of bioactive, or bioresorbable material (par. 0053) and that is flowable (see Pars. 50 and 51, and see Fig. 9). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the device of Zdeblick et al. having at least a balloon and bioactive/resorbably materials in view of Mathews to better support the spine in use.

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Claim 38 is rejected under 35 U.S.C. 103(a) as being unpatentable over Zdeblick et al. '655 in view Nicholson et al. (US Patent 6,258,094). Zdeblick et al. disclose the claimed invention except for specifically a support that is biodegradable. Nicholson et al. discloses a lumbar or vertebrae implant (see Figs. 3-5) having a biodegradable material so the implant better interfaces with the spine as it supports the vertebrae (see Col. 12, lines 35-40). It would have been obvious to one having ordinary skill in the art at the time the invention was made to construct the implant of Zdeblick et al. having at least a biodegradable material in view of Nicholson et al. to better have the implant mesh and be incorporate into the spine.

### Election/Restrictions

The previous election restriction in the office action dated 5/1/2007 has been withdrawn.

### Response to Arguments

Applicant's arguments with respect to claims 1-6, 11-13, 15, 24, and 37-40 have been considered. It is noted that with regard to the status of the case, it is Non-Final because the previously withdrawn claims are now incorporated into the rejection. For further clarification, the rejection in view of Zdeblick et al. has been amended to further clarify the rejection. The rejection as previously recited focused on the entire insertion device, however as the claims require only a "body" this reads on the specific structures as provided by Zdeblick et al. In addition to the main "body" feature as rejected, this portion, as shown in Fig. 11, still has a conduit throughout. Despite the body being

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treated as a single portion of the device, at least in Figs. 9 and 11, at least a portion of the "body" has association and connection with the longer insertion device.

#### Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James L. Swiger whose telephone number is 571-272-5557. The examiner can normally be reached on Monday through Friday, 9:00am to 5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Eduardo Robert can be reached on 571-272-4719. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

2/28/07

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UPERVISORY VATENT EXAMINER